

Koenig, J.Q., Larson, T.V., Hanley, Q.S., Rebolledo, V., Dumler, K., Checkoway, H., Wang, S.Z., Lin, D.Y., and Pierson, W.E., "Human Health and Environmental Effects. Session 136. Woodsmoke Exposure and Human Health Impacts: Pulmonary Function Changes in Children Associated with Particulate Matter Air Pollution From Woodsmoke," Proc Annul Meet Exhib Air Waste Manage Assoc 15A(84): 2-8, 1991.

The authors of this study investigated respiratory function in 313 children (including 26 with asthma) exposed to particulate matter from woodsmoke emitted from woodburning stoves during two heating seasons. The authors stated that "this analysis clearly indicates that increases in air pollution are associated with declines in children's pulmonary function" and that "there is growing evidence that exposure to constituents of wood smoke affect pulmonary function in young children." The authors reported that the associated effects were "far greater" in asthmatic children than in nonasthmatic children. Removing children reportedly exposed to parental smoking did not change the analysis.